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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/923,359	08/08/2001	Byoung Wook Kim	K-0311	2866
34610	7590	03/10/2006	EXAMINER	
FLESHNER & KIM, LLP P.O. BOX 221200 CHANTILLY, VA 20153			VAN BRAMER, JOHN W	
			ART UNIT	PAPER NUMBER
			3622	
DATE MAILED: 03/10/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>		<b>Applicant(s)</b>	
	09/923,359		KIM ET AL.	
	<b>Examiner</b>		<b>Art Unit</b>	
	John Van Bramer		3622	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 30 January 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) 1-4, 10-17 and 21-29 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 5-9, 18-20 and 30-35 is/are rejected.
- 7) ☒ Claim(s) 5, 7, 8 and 18-20 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on 08 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☒ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

***Election/Restrictions***

1. Applicant's election with traverse of Group II (claims 5-9, 18-20, and 30-35) in the reply filed on January 3, 2006 is acknowledged. The traversal is on the ground(s) that the subject matter is sufficiently related that a thorough search for the subject matter of each of the designated inventions would encompass a search for the subject matter of the remaining designated inventions. This is not found persuasive because the subject matter contained in the claims of Group I, Group II, and Group III fall into separate patent classifications, and would require separate searches to prosecute their respective claims.

The requirement is still deemed proper and is therefore made FINAL.

2. Based on the above election by the Applicant of Group II pertaining to the planning and storing of route information that is capable of manipulating data associated with the travel in order to alter the travel route, Claims 5-9, 18-20, and 30-35 are being considered below.

***Priority***

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
4. Should applicant desire to obtain the benefit of foreign priority under 35 U.S.C. 119(a)-(d), a translation of the foreign application should be submitted under 37 CFR 1.55 in reply to this action.

### ***Specification***

5. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

6. The abstract of the disclosure is objected to because it contains more than 150 words. Correction is required. See MPEP § 608.01(b).

### ***Claim Objections***

7. Claims 5, and 18 – 20 are objected to because of the following informalities:

The claims contain a reference to a "CP" which the examiner has interpreted to mean content provider based upon the specification. Examiner suggests changing the abbreviation "CP" in the claims to read "content provider". Appropriate correction is required.

8. Claims 7 and 8 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

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Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. \

Claims 7 and 8 are dependent on Claim 6 which recites "the special information is one of:

- a. Information effective only in the corresponding region
- b. Information of the current traffic conditions in the region.
- c. Information of each road in the region.
- d. Information of the current condition of each road."

Therefore, there is no guarantee that information regarding traffic conditions (as stated in Claim 7 and Claim 8) or will be provided. Without "special information" that includes "traffic conditions", Claims 7 and 8 do not further limit Claim 6.

### ***Claim Rejections - 35 USC § 112***

9. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

10. Claim 35 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 35 states that "information of various e-mails received from the initially registered standard location to the client's account". However, no method for sending, receiving, or checking an e-mail account has been disclosed in Claim 32, from which it depends.

***Claim Rejections - 35 USC § 102***

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

12. Claims 5 – 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Schreder (U.S. Patent Number: 5,504,482).

Claim 5: Schreder discloses an operating method of an informative service system comprising the steps of:

- a. Continuously confirming the location of a terminal set to receive various services. (Col 12, lines 11 – 38)
- b. Collecting special information required for supply of traffic information in a region through a local CP network constructed in the region when it is confirmed through pilot signal transmitted from a client's terminal that the client's terminal enters the region and transmitting the collected information to the client's terminal. (Col 10, lines 35 – 62)

Claim 6: Schreder discloses the method according to claim 5, wherein the special information is at least one of information effective only in the corresponding region, information of the current traffic conditions in the region, information of each road in the region and information of the current conditions of each road. (Col 10, lines 54 – 67 and Col 13, lines 15 – 37)

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Claim 7: Schreder discloses the method according to claim 6, wherein information of the current traffic conditions in the region is information under a traffic control condition. (Col 10, lines 54 – 67 and Col 13, lines 15 – 37)

Claim 8: Schreder discloses the method according to claim 6, wherein information of each road is information of driving speed limit, information of no-parking areas, information of one-way traffic and map data of the above information. (Col 13, lines 38 – 57 and Col 6, lines 44 – 56)

Claim 9: Schreder discloses the method according to claim 6, wherein information of the current traffic conditions is information of road conditions due to road construction in the corresponding region and map data of the above information. (Col 13, lines 38 – 57 and Col 6, lines 44 – 56)

13. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

14. Claims 18 – 20 and 30 – 35 are rejected under 35 U.S.C. 102(e) as being anticipated by Fan et al. (U.S. Patent Number: 5,959,577).

Claim 18: Fan discloses an operating method of an informative service system for providing requested information if a owner of a terminal entering a special

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region requests special information within the region through Internet connection using the terminal, the operating method comprising the steps of:

- a. Receiving the requested information through a server network. (Col 3, lines 11 – 46)
- b. Confirming the present position of the owner of the terminal who requests information. (Col 3, lines 11 – 46)
- c. Transmitting data of the requested information to the local CP network constructed in the confirmed location. (Col 3, lines 11 – 46)

Claim 19: Fan discloses the method according to claim 18, wherein the step of providing the requested information through a local CP network includes the steps of:

- a. Searching the requested information from information stored on the basis of information received from the server network. (Col 3, lines 11 – 46)
- b. Transmitting the searched information to the corresponding terminal. (Col 3, lines 11 – 46)

Claim 20. Fan discloses an operating method of an informative service system, if a client who enters a special region requests special information of the region using a terminal of the client, the method comprising the steps of:

- a. Transmitting the request of information received from the client to a local CP network through a network linking device of a base station receiving signal transmitted from the client's terminal, the local CP network having much information of the region where the client is located (Col 3, lines 11 – 46)



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- b. Searching the requested information from information stored in the local CP network receiving the request of information. (Col 3, lines 11 – 46)
- c. Transmitting the searched information to the client's terminal. (Col 3, lines 11 – 46)

Claim 30. Fan discloses an information service system comprising:

- a. A database storing information of a standard location registered by the client, information of critical value of a difference in time and space from the standard location and information related with services provided according to the difference in time and space. (Fan: Col 4, lines 41 - 54)
- b. Position confirming means for grasping the present position of the client. (Fan: Col 3, line 46 through Col 4 line 40)
- c. Time measuring means for counting time exceeding the critical value from the standard location registered by the client. (Fan: Col 4, lines 55 – 65)
- d. Information obtaining means for obtaining information of services set according to the difference in time and space confirmed by the position confirming means and the time measuring means. (Fan: Col 2, line 60 through Col 3, line 16)
- e. Information transmitting means for transmitting the obtained information to a terminal of a client. (Fan: Col 5, lines 15 – 20)

Claim 31. Fan discloses the system according to claim 30, wherein all of the means are constructed according to the environment of a mobile communication system based on various networks. (Fan: Col 2, lines 60 – 67)

Claim 32. Fan discloses an operating method of an informative service system comprising the steps of:

- a. Registering a standard location by a client. (Col 6, lines 49 – 61)
- b. Continuously confirming the present position of the client. (Col 6, lines 49 – 61)
- c. Confirming a difference in time and space between the confirmed present position of the client and an initially registered standard location. (Col 6, lines 49 – 61)
- d. Performing service set according to exceeded difference if the confirmed difference in time and space exceeds a critical value of the set difference in time and space. (Col 6, lines 49 – 61)

Claim 33. Fan discloses the method according to claim 32, wherein the step of confirming the present position of the client is performed according to a period for confirming the set present position or performed according to a request of the client. (Col 3, lines 11 – 46)

Claim 34. Fan discloses the method according to claim 32, wherein the step of confirming a difference in time and space between the confirmed present position of the client and an initially registered standard location is performed by confirming whether or not the client is out of the set critical distance from the initially registered standard location. (Col 6, lines 49 – 61)

Claim 35. Fan discloses the method according to claim 32, wherein the service set according to exceeded difference if the confirmed difference in time and

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space is service for providing at least one of information of various e-mails received from the initially registered standard location to the client's account at a time point exceeding the critical value of the set difference in time and space, information available restaurants at the location where the client is located if it is a mealtime, and information of traffic for returning the client to the standard location. (Col 6, line 62 through Col 7, line 20)

### ***Conclusion***

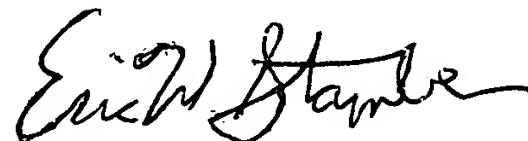
15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - a. Delorme (U.S. Patent Number: 5,948,040), which discloses a system for travel planning that includes location-based information.
  - b. Moukas et al. ("Trafficopter: A Distributed Collection System for Traffic Information", Lecture Notes in Computer Science: Cooperative Information Agents II, Learning, Mobility and Electronic Commerce for Information Discovery on the Internet, Second International Workshop, CIA'98, Paris, France, Editors: Klusch et al., Volume 1435, 1998, p. 33) which discloses a multi-agent system that collects and propagates traffic information to mobile agents.
16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Van Bramer whose telephone number is (571) 272-8198. The examiner can normally be reached on 9am - 5pm Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Stamber can be reached on (571) 272-6724. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jvb



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